

APPLICATION WHITE PAPER

—GPON APP NOTE/EXAMPLE

Version V1.0.1

Z

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DBA profile

Item	Description	Example
DBA profile	The DBA of ONU	Assured :10M Maximum :100M

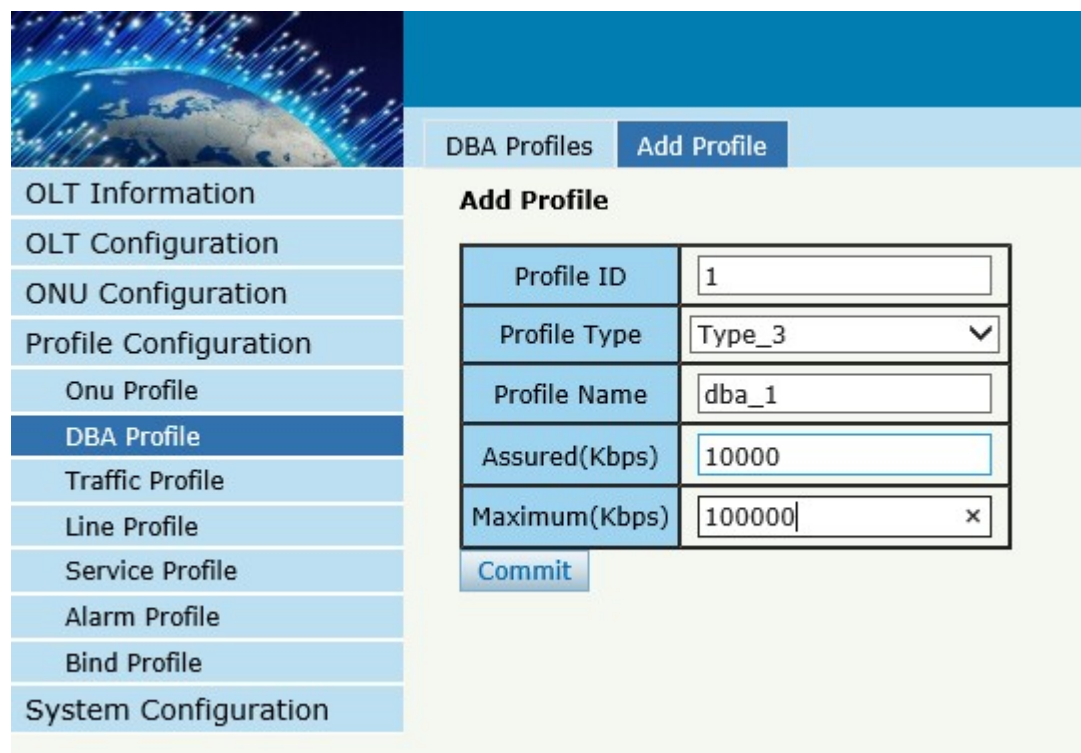
By CLI -----

```
gpon-olt(config)# profile dba
```

```
gpon-olt(profile-dba:1)# type 3 assured 10000 maximum 100000
```

```
gpon-olt(profile-dba:1)# commit
```

By Web -----



The screenshot shows a web interface for configuring DBA Profiles. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, Onu Profile, **DBA Profile**, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main content area is titled 'DBA Profiles' and has an 'Add Profile' button. Below this is the 'Add Profile' form with the following fields:

Profile ID	<input type="text" value="1"/>
Profile Type	<input type="text" value="Type_3"/>
Profile Name	<input type="text" value="dba_1"/>
Assured(Kbps)	<input type="text" value="10000"/>
Maximum(Kbps)	<input type="text" value="100000"/>

Below the form is a 'Commit' button.

SFU Authorization

Planning Data

Item	Description	Example
ONU Type	The type of onu	V2801ZG
ONU SN	ONU serial number	GPON00000015
OLT PON	The PON port of OLT	GPON 0/1
Equipid	The Equipment id of ONU	V2801ZGV8.0

ONU Manual authorize

By CLI -----

```
gpon-olt(config)# profile onu name V2801ZG
```

```
gpon-olt(profile-onu:3)# port-num eth 1
```

```
gpon-olt(profile-onu:3)# commit
```

```
gpon-olt(profile-onu:3)# exit
```


```
gpon-olt(config)# show onu auto-find
```

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-pon-0/1)# onu add 1 profile V2801ZG sn GPON00000015
```

By Web -----

1、 Create ONU profile for 1GE ONU




Information **Add Profile**

Onu Profiles Modify

Profile ID	1
Profile Name	V2801ZG
Description	1GE SFU
Max tcont	8
Max gempport	32
Max eth	1
Max pots	0
Max iphost	2
Max ipv6host	0
Max veip	0
Service Ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

[Commit](#)

2, Find the ONU of Autofind lists and perform authorization operations on it



Automatic Discovery

Automatic Discovery

Port ID

ONU ID	Sn	State	Action
GPON0/1:1	RTL00000015	Unknown	Add Detail Info

[Refresh](#)

3, Select the 1GE ONU template

Automatic Discovery

Add Onu

PON Number	<input type="text" value="1"/>
ONU Number	<input type="text" value="1"/>
Auth Mode	<input type="text" value="Sn"/>
Onu Sn	<input type="text" value="RTL00000015"/>
ONU Profile	<input type="text" value="V2801ZG"/>

If ONU is successfully registered, working will be shown here

Automatic Discovery

ONU Status Info

Port ID

ONU ID	Admin State	OMCC State	Phase State
GPON0/1:1	Enable	Enable	working

ONU automatic authorize

By CLI -----

```
gpon-olt(config)# profile onu name V2801ZG
```

```
gpon-olt(profile-onu:3)# port-num eth 1
```

```
gpon-olt(profile-onu:3)# commit
```

```
gpon-olt(profile-onu:3)# exit
```

```
gpon-olt(config)# show onu auto-find detail-info
```

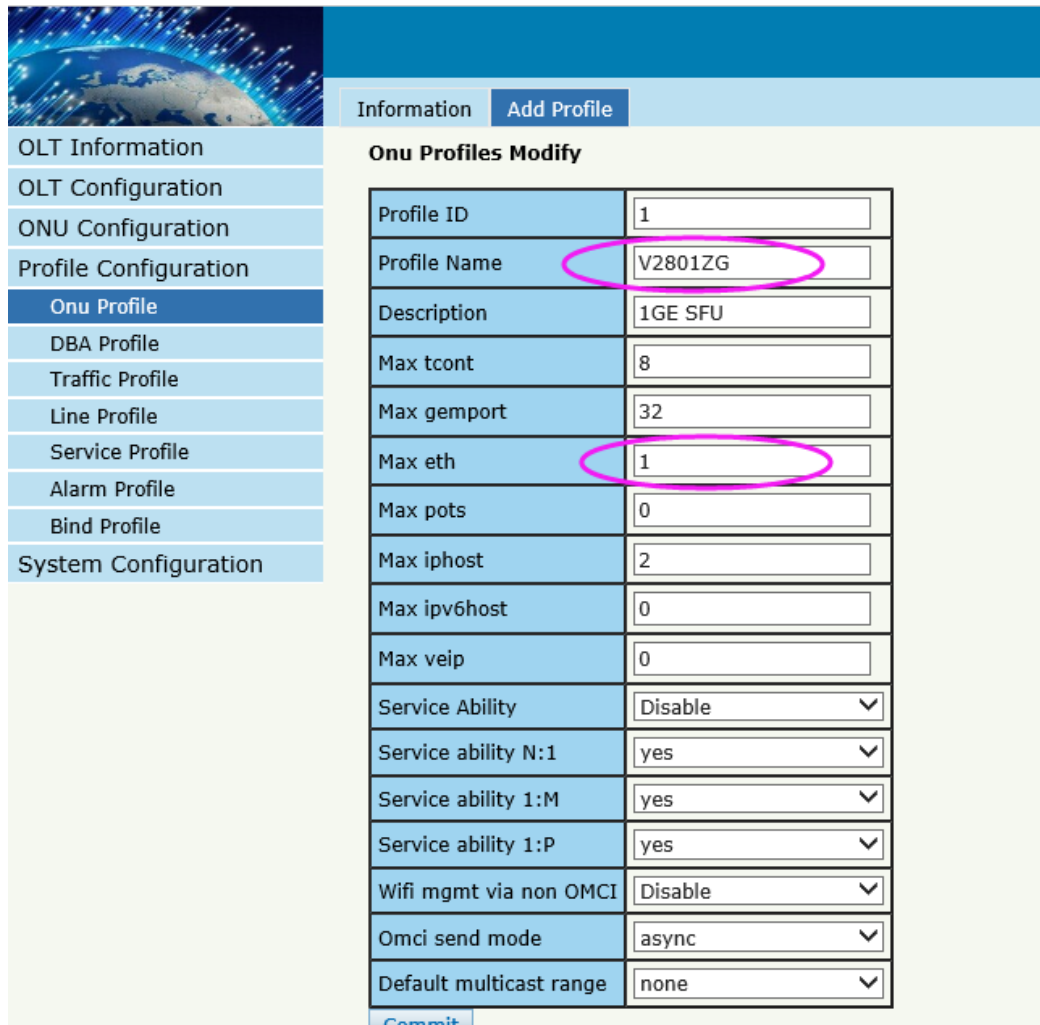
```
gpon-olt(config)# onu auto-learn bind onu-profile V2801ZGV8.0 V2801ZG
```

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-pon-0/1)# onu auto-learn
```

By Web -----

1、 Create ONU profile for 1GE ONU



The screenshot shows a web interface for configuring ONU profiles. On the left is a navigation menu with categories like OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, Onu Profile, DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The 'Onu Profile' category is selected. The main area is titled 'Onu Profiles Modify' and contains a form with the following fields:

Profile ID	1
Profile Name	V2801ZG
Description	1GE SFU
Max tcont	8
Max gempport	32
Max eth	1
Max pots	0
Max iphost	2
Max ipv6host	0
Max veip	0
Service Ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

A 'Commit' button is visible at the bottom of the form.

2, Equipment ID binding ONU profile

ONU AutoLearn **ONU AutoBind**

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Srv Profile	Alarm Profile	Action
V2801ZGV8.0	V2801ZG	N/A	N/A	N/A	Delete

Add ONU Auto Bind

Equipment ID:

ONU Profile:

[Add](#) [Refresh](#)

3, enable automatic learn mode of PON port

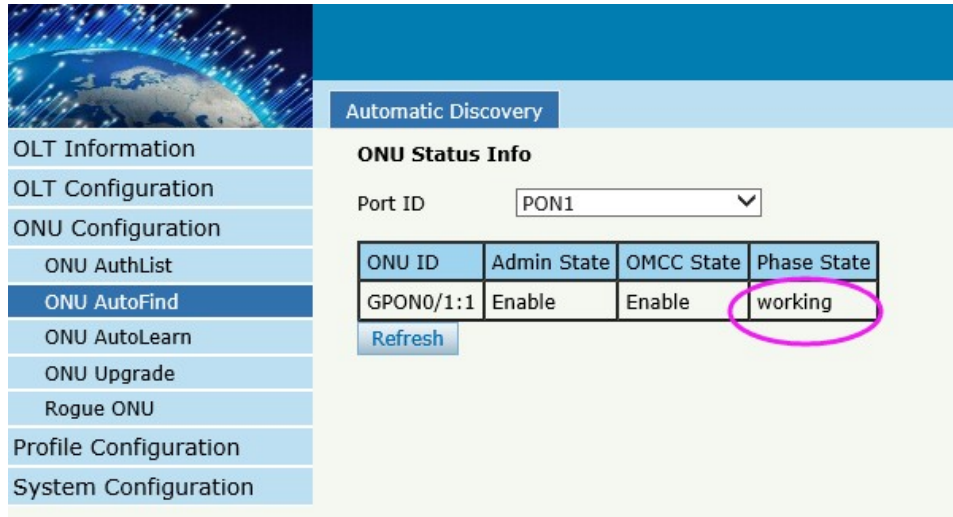
ONU AutoLearn **ONU AutoBind**

Automatic Learn

PON ID	Enable	Default ONU Profile
PON1	<input type="text" value="Enable"/>	<input type="text" value="default"/>
PON2	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON3	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON4	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON5	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON6	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON7	<input type="text" value="Disable"/>	<input type="text" value="default"/>
PON8	<input type="text" value="Disable"/>	<input type="text" value="default"/>

[Apply](#) [Refresh](#)

If ONU is successfully registered, working will be shown here



HGU Authorization

Planning Data

Item	Description	Example
ONU Type	The type of onu	HG326RGW
ONU SN	ONU serial number	GPON000010E0
OLT PON	The PON port of OLT	GPON 0/1
Equipid	The Equipment id of ONU	IGD

ONU Manual authorize

By CLI -----

```
gpon-olt(config)# profile onu name HG326RGW
```

```
gpon-olt(profile-onu:3)# port-num veip 1
```

```
gpon-olt(profile-onu:3)# commit
```

```
gpon-olt(profile-onu:3)# exit
```

```
gpon-olt(config)# show onu auto-find
```

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-pon-0/1)# onu add 1 profile HG326RGW sn GPON000010E0
```

By Web -----

1、 Create ONU profile for 4GE HGU

ONU Profile Modify	
Profile ID	3
Profile Name	HG326RGW
Description	description
Max tcont	8
Max gemport	32
Max eth	1
Max pots	0
Max Iphost	2
Max Ipv6host	0
Max veip	1
Service ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

2, Find the ONU of Autofind lists and perform authorization operations on it

Automatic Discovery

Automatic Discovery

Port ID

ONU ID	Sn	State	Action
GPON0/1:1	GPON000010E0	Unknown	Add Detail Info

[Refresh](#)

3, Select the ONU template

Automatic Discovery

Add Onu

PON Number	<input type="text" value="1"/>
ONU Number	<input type="text" value="1"/>
Auth Mode	<input type="text" value="Sn"/>
Onu Sn	<input type="text" value="GPON000010E0"/>
ONU Profile	<input type="text" value="HG326RGW"/>

[Submit](#) [Back](#)

If ONU is successfully registered, working will be shown here

The screenshot shows a web-based configuration interface for an OLT. On the left is a navigation menu with options like OLT Information, OLT Configuration, ONU Configuration, and ONU AutoFind (which is selected). The main area is titled 'Automatic Discovery' and 'ONU Status Info'. It features a dropdown menu for 'Port ID' set to 'PON1'. Below this is a table with columns for ONU ID, Admin State, OMCC State, and Phase State. The table contains one entry: GPON0/1:1, with Admin State 'Enable', OMCC State 'Enable', and Phase State 'working'. The 'working' text is circled in pink. A 'Refresh' button is located below the table.

ONU ID	Admin State	OMCC State	Phase State
GPON0/1:1	Enable	Enable	working

ONU automatic authorize

By CLI -----

```

gpon-olt(config)# profile onu name HG326RGW

gpon-olt(profile-onu:3)# port-num veip 1

gpon-olt(profile-onu:3)# commit

gpon-olt(profile-onu:3)# exit

gpon-olt(config)# show onu auto-find detail-info

gpon-olt(config)# onu auto-learn bind onu-profile IGD HG326RGW


gpon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# onu auto-learn

```

By Web -----

- 1、 Create ONU profile for 4GE HGU




Information **Add Profile**

ONU Profile Modify

Profile ID	3
Profile Name	HG326RGW
Description	description
Max tcont	8
Max gemport	32
Max eth	1
Max pots	0
Max Iphost	2
Max Ipv6host	0
Max veip	1
Service ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

OLT Information
 OLT Configuration
 ONU Configuration
 Profile Configuration
ONU Profile
 DBA Profile
 Traffic Profile
 Line Profile
 Service Profile
 Alarm Profile
 Bind Profile
 System Configuration

2, Equipment ID binding ONU profile



ONU AutoLearn **ONU AutoBind**

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Action

Add ONU Auto Bind

Equipment ID	IGD
ONU Profile	HG326RGW

Add Refresh

OLT Information
 OLT Configuration
 ONU Configuration
 ONU AuthList
 ONU AutoFind
ONU AutoLearn
 ONU Upgrade
 Rogue ONU
 Profile Configuration
 System Configuration

3, enable automatic learn mode

ONU AutoLearn ONU AutoBind

Automatic Learn

PON ID	Enable	Default ONU Profile
PON1	Enable	default
PON2	Disable	default
PON3	Disable	default
PON4	Disable	default
PON5	Disable	default
PON6	Disable	default
PON7	Disable	default
PON8	Disable	default

Apply Refresh

If ONU is successfully registered, working will be shown here

Automatic Discovery

ONU Status Info

Port ID: PON1

ONU ID	Admin State	OMCC State	Phase State
GPON0/1:1	Enable	Enable	working

Refresh

Automatic Configure the ONU By Profile

Create a line profile and srv profile. When the ONU online, it can be bound the corresponding line profile and srvprofile according to the Equipment id.

Planning Data

Item	Description	Example
------	-------------	---------

ONU Type	The type of onu	2801ZG
ONU SN	ONU serial number	GPON000000C0
OLT PON	The PON port of OLT	GPON 0/1
Equipment id	The Equipment id of ONU	V2801ZGV8.0
Tcont	Tcont	1
Gemport	Gemport	1
Service	The onu Service	Vlan 100
Service-port	The onu service-port	Vlan 100 Mode tag

Automatic configure onu

By CLI -----

```

gpon-olt(config)# profile onu name V2801ZG

gpon-olt(profile-onu:3)# port-num eth 1

gpon-olt(profile-onu:3)# commit

gpon-olt(profile-onu:3)# exit

gpon-olt(config)# profile dba name dba_1

gpon-olt(profile-dba:4)# type 3 assured 10000 maximum 100000

gpon-olt(profile-dba:4)# exit

gpon-olt(profile-dba:4)# commit

gpon-olt(config)# profile line name line1

gpon-olt(profile-line:1)# tcont 1 dba dba_1

gpon-olt(profile-line:1)# gemport 1 tcont 1

gpon-olt(profile-line:1)# service 1 gemport 1 vlan 100

gpon-olt(profile-line:1)# service-port 1 gemport 1 uservlan 100 vlan 100

gpon-olt(profile-line:1)# commit

gpon-olt(profile-line:1)# exit

pon-olt(config)# profile srv name srv1

```



```
gpon-olt(profile-srv:1)# portvlan eth 1 mode hybrid def_vlan 100
gpon-olt(profile-srv:1)# commit
gpon-olt(profile-srv:1)# exit
gpon-olt(config)# onu auto-learn bind onu-profile V2801ZG8.0 V2801ZG
gpon-olt(config)# onu auto-learn bind line-profile V2801ZGV8.0 line1
gpon-olt(config)# onu auto-learn bind srv-profile V2801ZGV8.0 srv1
gpon-olt(config)# interface gpon 0/1
gpon-olt(config-pon-0/1)# onu auto-learn
gpon-olt(config-pon-0/1)#exit
```

By Web -----

1、 Create ONU profile for 1GE ONU

Information Add Profile

Onu Profiles Modify

Profile ID	1
Profile Name	V2801ZG
Description	1GE SFU
Max tcont	8
Max gempport	32
Max eth	1
Max pots	0
Max iphost	2
Max ipv6host	0
Max veip	0
Service Ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

Commit

2, Equipment ID bind ONU profile

ONU AutoLearn ONU AutoBind

Automatic Bind


Equipment ID	ONU Profile	Line Profile	Srv Profile	Alarm Profile	Action
V2801ZGV8.0	V2801ZG	N/A	N/A	N/A	Delete

Add ONU Auto Bind

Equipment ID	V2801ZGV8.0
ONU Profile	V2801ZG

Add Refresh

3, create line profile




Line Profile **Add Profile**

Add Profile

Profile ID	1
Profile Name	line_1

Add

- OLT Information
- OLT Configuration
- ONU Configuration
- Profile Configuration
 - Onu Profile
 - DBA Profile
 - Traffic Profile
 - Line Profile**
 - Service Profile
 - Alarm Profile
 - Bind Profile
- System Configuration



Line Profile **Add Profile**

Line Profiles

Profile ID	Profile Name	Action
1	line_1	Detail & Modify Delete

Refresh

- OLT Information
- OLT Configuration
- ONU Configuration
- Profile Configuration
 - Onu Profile
 - DBA Profile
 - Traffic Profile
 - Line Profile**
 - Service Profile
 - Alarm Profile
 - Bind Profile
- System Configuration

4, create tcont

The screenshot shows the 'Line Profile' configuration page. The left sidebar contains a menu with 'Line Profile' selected. The main content area has tabs for 'Tcont', 'Gemport', 'Service', 'ServicePort', and 'Multicast Vlan'. The 'Tcont' tab is active, displaying 'Tcont Info' and 'Add Tcont' sections. The 'Add Tcont' form is highlighted with a pink oval and contains the following fields:

Tcont ID	1	(1 ~ 255)
Tcont Name	1	
Dbp Profile Name	dba_1	▼

Below the form is an 'Add' button.


5, create gemport

The screenshot shows the 'Line Profile' configuration page with the 'Gemport' tab selected. The 'Add Gemport' form is displayed and contains the following fields:

Gemport ID	1	× (1~255)
TcontID	1	▼
Gemport Name	default	
Cos	N/A	(0-7)
Upstream Traffic	default	▼
Downstream Traffic	default	▼
UpQueueMapId	N/A	(0-3)
DownQueueMapId	N/A	(0-7)
State	Enable	▼

Below the form is an 'Add' button.

6 create service



Line Profile **Add Profile**

OLT Information
OLT Configuration
ONU Configuration
Profile Configuration
Onu Profile
DBA Profile
Traffic Profile
Line Profile
Service Profile
Alarm Profile
Bind Profile
System Configuration

Tcont Gempport **Service** ServicePort Multicast Vlan

Service Info


Service Name	Gempport	Vlan Mode	Vlan List	Cos List	Port	Action

Add Service

Service Name	<input type="text" value="1"/>
Gempport ID	<input type="text" value="1"/> ▼
Vlan Mode	<input type="text" value="Tag"/> ▼
Vlan List	<input type="text" value="100"/> (X,X or X-X;0 for all)
Cos List	<input type="text" value="N/A"/> (X,X or X-X;)
Port Type	<input type="text" value="N/A"/> ▼

Add

7、 create service-port



Line Profile **Add Profile**

OLT Information
OLT Configuration
ONU Configuration
Profile Configuration
Onu Profile
DBA Profile
Traffic Profile
Line Profile
Service Profile
Alarm Profile
Bind Profile
System Configuration

Tcont Gempport Service **ServicePort** Multicast Vlan

Service Port Info

Service Port	Vport	BeginVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action

Add Service Port

Service Mode	<input type="text" value="Cvlan"/> ▼
Service-Port ID	<input type="text" value="1"/> (1~128)
Gempport ID	<input type="text" value="1"/> ▼
User Vlan	<input type="text" value="100"/>
Translate Vlan	<input type="text" value="100"/>
Translate Cos	<input type="text" value="N/A"/> (0-7)
Translate Svlan	<input type="text" value="N/A"/>
Translate Scos	<input type="text" value="N/A"/> (0-7)
Description	<input type="text" value="N/A"/>

Add

8、 create service profile

Service Profiles **Add Profile**

Add Profile

Profile ID	1
Profile Name	srv_1

Add

Service Profiles **Add Profile**

Service Profiles

Profile ID	Profile Name	Action
1	srv_1	Details & Modify Delete

Refresh

9、 create service profile

Service Profiles **Add Profile**

PortVlan Multicast Vlan Strip Iphost config

PortVlan Info(Service Profile:1)

Port Name	Mode	Vlan	Vlan Pri(tag)	Default Vlan(hybrid)	Default Pri(hybrid)	CVlan(translate)	CVlanPri(translate)	SVlan(translate)	SVlan Pri(translate)
	Tag	100							

Add PortVlan

Mode	Tag
Port Type	Eth
Port Id	1
Vlan	100 (1-4094)
Vlan Pri	N/A (0-7)

Commit

10、 bind profile

ONU AutoLearn **ONU AutoBind**

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Srv Profile	Alarm Profile	Action
--------------	-------------	--------------	-------------	---------------	--------

Add ONU Auto Bind

Equipment ID	V2801ZGV8.0
ONU Profile	V2801ZG
Line Profile	line_1
Srv Profile	srv_1

Add Refresh

11, enable automatic learn mode

ONU AutoLearn **ONU AutoBind**

Automatic Learn

PON ID	Enable	Default ONU Profile
PON1	Enable	default
PON2	Disable	default
PON3	Disable	default
PON4	Disable	default
PON5	Disable	default
PON6	Disable	default
PON7	Disable	default
PON8	Disable	default

Apply Refresh

Show/Delete the ONU

Show the ONU status

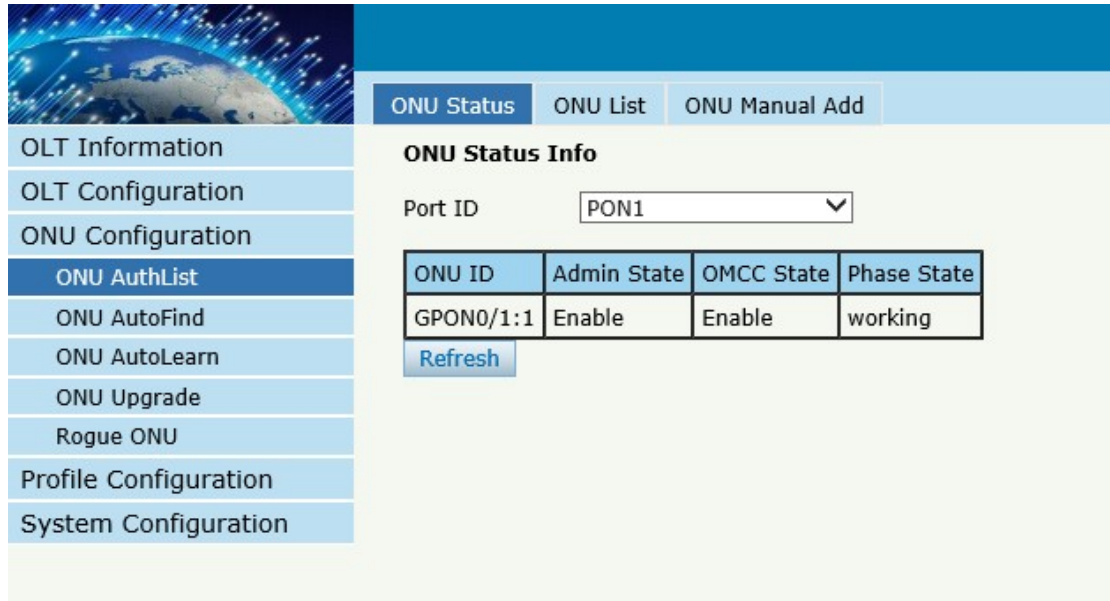
By CLI -----

gpon-olt(config-pon-0/1)# show onu state

OnuIndex Admin State OMCC State Phase State Config State Channel

1/1/1:1 enable enable working succeeded 1(GPON)

By Web -----



The screenshot shows a web interface for ONU management. On the left is a navigation menu with items like 'OLT Information', 'ONU Configuration', and 'ONU AuthList'. The main content area is titled 'ONU Status Info' and includes a 'Port ID' dropdown menu set to 'PON1'. Below this is a table with the following data:

ONU ID	Admin State	OMCC State	Phase State
GPON0/1:1	Enable	Enable	working

A 'Refresh' button is located below the table.

Delete the ONU status

By CLI -----

gpon-olt(config-pon-0/1)# no onu 1

By Web -----



- OLT Information
- OLT Configuration
- ONU Configuration
 - ONU AuthList**
 - ONU AutoFind
 - ONU AutoLearn
 - ONU Upgrade
 - Rogue ONU
- Profile Configuration
- System Configuration

ONU Status **ONU List** ONU Manual Add

ONU Authentication Info

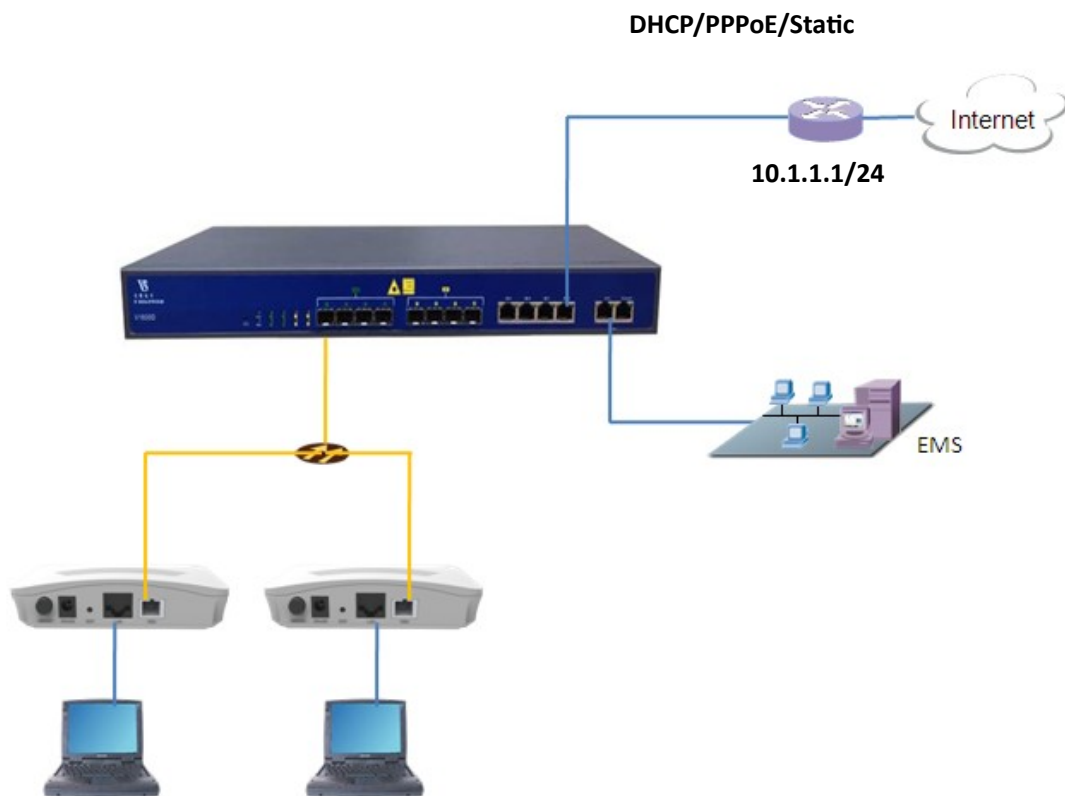
Port ID

ONU ID	ONU Profile	Auth Mode	Auth Info	Action
GPON0/1:1	V2801ZG	Sn	GPON000010E0	Delete Config Modify Optical Info Detail Info Reboot

[Delete All](#) [Refresh](#)

Case 1 SFU Bridge

Network Diagram



Planning Data

Item		Description	Example
ONU Information	Slot No.	The number of the slot actually used.	0
	PON No.	The number of the actually used PON port.	1

	ONU Auth No.	Configure according to the network planning of the operator.	1
	ONU Type	The type of the ONU.	2801ZG
	ONU SN	ONU serial number	GPON000000C0
	OLT PON	The PON port of OLT	GPON 0/1
	Equipid	The Equipment id of ONU	V2801ZGV8.0
OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 100
	Service Uplink port	Configure according to the number of the actually used uplink port.	GE8
ONU	Service LAN port	The number of the actually used ONU port.	LAN1
	Tcont	The onu Tcont	Tcont=1
	Gemport	The onu Gemport	Gemport=1
	Dbas	The ONU dba profile	Dbas name= dba_1 Dbas type = 3
	Service vlan	The vlan of ONU service.	Service Vlan = 100
	Service-port uservlan	The vlan of onu service-port	Service-port vlan =100
	Portvlan	The vlan of onu port	Portvlan=100 Mode=hybrid
	If DHCP mode	The router use DHCP assign ip to PC.	Gateway = 10.1.1.1 IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 DNS = 8.8.8.8
PC	If PPPoE mode	The router use PPPoE assign ip to PC.	IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 User name = test Password = test
	If Static mode	The router use Static assign ip to PC.	Gateway = 10.1.1.1 IP = 10.1.1.100 IP Mask = 255.255.255.0 DNS = 8.8.8.8

Configuring the OLT

By CLI -----

```
gpon-olt(config)# vlan 100
```

```
gpon-olt(config-vlan-100)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/8
```

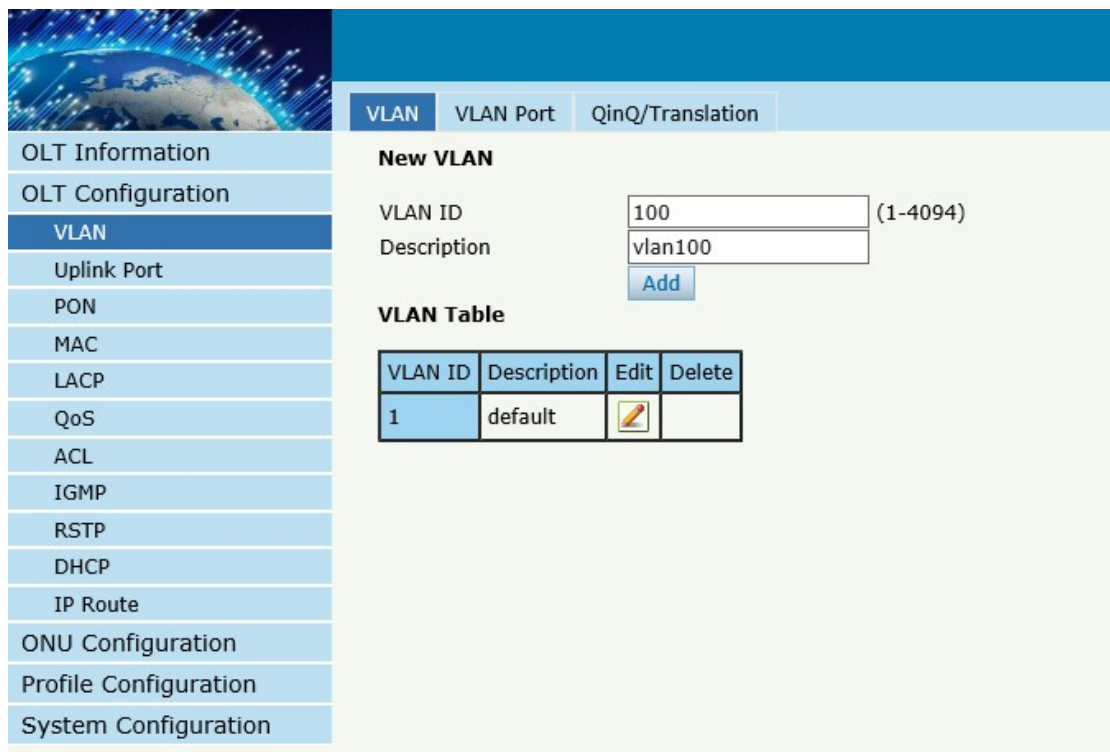
```
gpon-olt(config-if-ge0/8)# switchport hybrid vlan 100 untagged
```

```
gpon-olt(config-if-ge0/8)# switchport hybrid pvid vlan 100
```

```
gpon-olt(config-if-ge0/8)# exit
```

By Web -----


1, Create a new VLAN



The screenshot shows the OLT web interface with a navigation menu on the left and a main configuration area on the right. The navigation menu includes: OLT Information, OLT Configuration, VLAN (selected), Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area is titled 'New VLAN' and contains the following fields:

- VLAN ID: 100 (range 1-4094)
- Description: vlan100
- An 'Add' button is located below the description field.

Below the 'New VLAN' section is a 'VLAN Table' with the following data:

VLAN ID	Description	Edit	Delete
1	default		

2. Configure GE port VLAN mode

VLAN Port QinQ/Translation

VLAN ID: 100

Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Submit

Port VLAN Table

3, Configure GE port PVID

Information Configuration

GE Configuration

Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0

Submit Reset

Configuring the ONU

By CLI -----

```
gpon-olt(config)#profile dba name dba_1
```

```
gpon-olt(profile-dba:1)# type 3 assured 10000 maximum 1000000
```

```

gpon-olt(profile-dba:1)# commit

gpon-olt(profile-dba:1)# exit

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1

gpon-olt(config-gpon-0/1)# onu 1 gempport 1 tcont 1

gpon-olt(config-gpon-0/1)# onu 1 service 1 gempport 1 vlan 100

gpon-olt(config-gpon-0/1)#onu 1 service-port 1 gempport 1 uservlan 100 vlan 100

gpon-olt(config-gpon-0/1)#onu 1 portvlan eth 1 mode hybrid def_vlan 100


```

By Web -----

1, create DBA profile

DBA Profiles	
Add Profile	
Add Profile	
Profile ID	<input type="text" value="1"/>
Profile Type	<input type="text" value="Type_3"/> ▼
Profile Name	<input type="text" value="dba_1"/>
Assured(Kbps)	<input type="text" value="10000"/>
Maximum(Kbps)	<input type="text" value="100000"/> ×
Commit	

2,Create ONU profile for 1GE ONU




Information **Add Profile**

Onu Profiles Modify

Profile ID	1
Profile Name	V2801ZG
Description	1GE SFU
Max tcont	8
Max gempport	32
Max eth	1
Max pots	0
Max iphost	2
Max ipv6host	0
Max veip	0
Service Ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

[Commit](#)

3,Authorize ONU



Automatic Discovery

Automatic Discovery

Port ID

ONU ID	Sn	State	Action
GPON0/1:1	GPON000010E0	Unknown	Add Detail Info

[Refresh](#)

Automatic Discovery

Add Onu

PON Number	1
ONU Number	1
Auth Mode	Sn
Onu Sn	GPON000010E0
ONU Profile	V2801ZG

Submit Back

4, Configure ONU

ONU Status **ONU List** ONU Manual Add

ONU Authentication Info

Port ID: PON1

ONU ID	ONU Profile	Auth Mode	Auth Info	Action
GPON0/1:1	V2801ZG	Sn	GPON000010E0	Delete Config Modify Optical Info Detail Info Reboot

Delete All Refresh

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gempport Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Tcont Info (PON:1 ONU:1)

Tcont ID	Name	Db Profile	Action
1		dba_1	

Add ONU Tcont

Tcont ID: 1

Db Profile Name: dba_1

Commit

ONU Gempport Info (PON:1 ONU:1)

Gempport ID	Name	Tcont	Cos	Upstream	Downstream	State	UpQueueMapId	DownQueueMapId	Action
-------------	------	-------	-----	----------	------------	-------	--------------	----------------	--------

Add ONU Gempport

Gempport ID	<input type="text" value="1"/>
TcontID	<input type="text" value="1"/>
Gempport Name	<input type="text" value="default"/>
Cos	<input type="text" value="N/A"/> (0-7)
Upstream Traffic	<input type="text" value="default"/>
Downstream Traffic	<input type="text" value="default"/>
UpQueueMapId	<input type="text" value="N/A"/> (0-3)
DownQueueMapId	<input type="text" value="N/A"/> (0-7)
State	<input type="text" value="Enable"/>

[Commit](#)

ONU Service Info (PON:1 ONU:1)

Service Name	Gempport	Vlan Mode	Vlan List	Cos List	Port	Action
--------------	----------	-----------	-----------	----------	------	--------

Add ONU Service

Service Name	<input type="text" value="1"/>
Gempport ID	<input type="text" value="1"/>
Vlan Mode	<input type="text" value="Tag"/>
Vlan List	<input type="text" value="100"/> (X,X or X-X;0 for all)
Cos List	<input type="text" value="N/A"/> (X,X or X-X;)
Port Type	<input type="text" value="N/A"/>

[Commit](#)

ONU Service Port Info (PON:1 ONU:1)

Service Port	Vport	BenignVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action
--------------	-------	-----------	--------	----------	----------	----------	-------	------	-----	-------	------	------	--------	-------------	--------

Add ONU Service Port

Service Mode	<input type="text" value="Cvlan"/>
Service-Port ID	<input type="text" value="1"/>
Gempport ID	<input type="text" value="1"/>
User Vlan	<input type="text" value="100"/>
Translate Vlan	<input type="text" value="100"/>
Translate Cos	<input type="text" value="N/A"/> (0-7)
Translate Svlan	<input type="text" value="N/A"/>
Translate Scos	<input type="text" value="N/A"/> (0-7)
Description	<input type="text" value="N/A"/>

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gempport Service ServicePort **PortVlan** Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

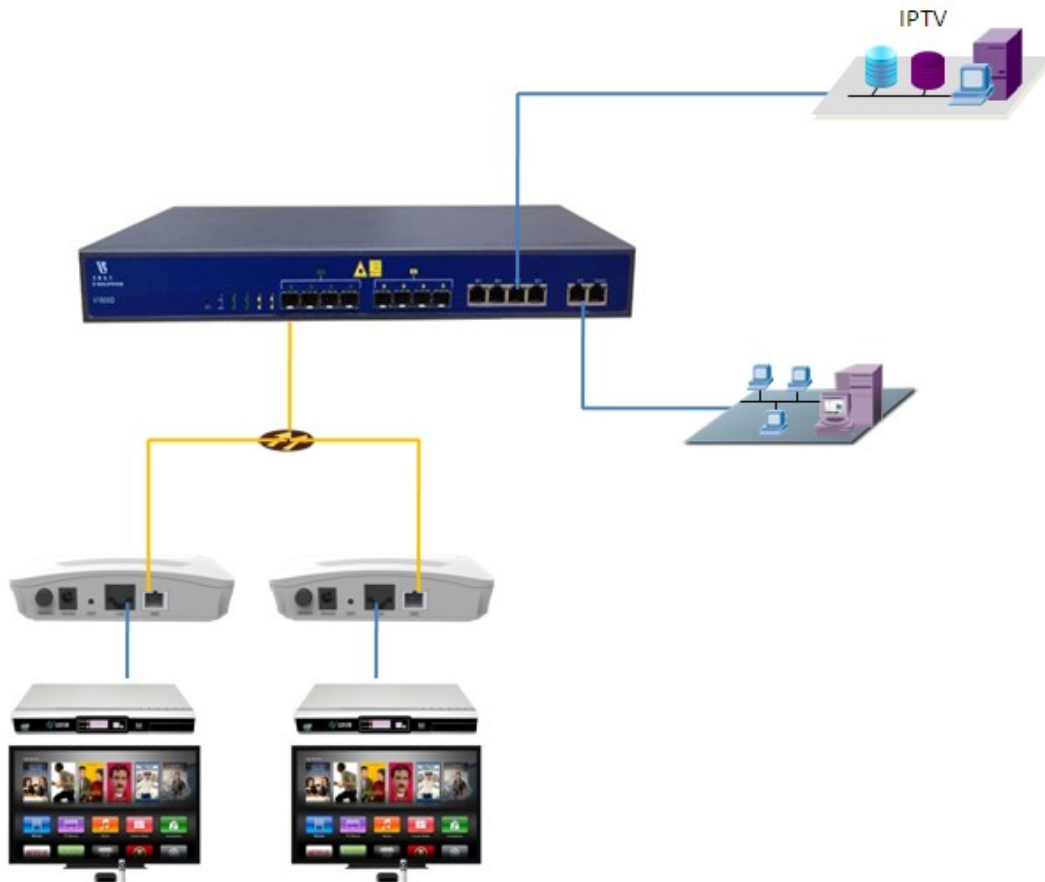
Port Name	Mode	Vlan	Vlan Pri(tag)	Default Vlan(hybrid)	Default Pri(hybrid)	CVlan(translate)	CVlanPri(translate)	SVlan(translate)	SVlan Pri(translate)	Action
-----------	------	------	---------------	----------------------	---------------------	------------------	---------------------	------------------	----------------------	--------

Add ONU PortVlan

Mode	Tag
Port Type	Eth
Port Id	1
Vlan ID	100
Vlan Pri	N/A (0-7)

Case 2 SFU Bridge With IPTV

Network Diagram



Planning Data

Item		Description	Example
ONU Information	Slot No.	The number of the slot actually used.	0
	PON No.	The number of the actually used PON port.	1
	ONU Auth No.	Configure according to the network planning of the operator.	1
	ONU Type	The type of the ONU.	2801ZG
	ONU SN	ONU serial number	GPON000000C0
	OLT PON	The PON port of OLT	GPON 0/1
	Equipid	The Equipment id of ONU	V2801ZGV8.0
	Service PON port	Configure according to the number of the actually used PON port.	PON1
ONU	Service LAN port	The number of the actually used ONU port.	LAN1
	Tcont	The onu Tcont	Tcont=1
	Gemport	The onu Gemport	Gemport=1
	Dbas	The ONU dba profile	Dbas name=dba_1 Dbas type = 3
	Service vlan	The vlan of ONU service.	Service Vlan = 300
	Service-port uservlan	The vlan of onu service-port	Service-port vlan =300
	Portvlan	The vlan of onu port	Portvlan=300 Mode=hybrid
IGMP	IGMP Group	The IP of IGMP source	IP = 239.0.0.1

Configuring the OLT

CLI

```
gpon-olt(config)# vlan 300
```

```
gpon-olt(config-vlan-300)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/7
```

```
gpon-olt(config-if-ge0/7)# switchport hybrid vlan 300 untagged
```

```
gpon-olt(config-if-ge0/7)# switchport hybrid pvid vlan 300
```

```
gpon-olt(config-if-ge0/7)# exit
```

```
gpon-olt(config)# ip igmp snooping enable
```

```
gpon-olt(config)# ip igmp snooping general-query-packet enable
```

```
gpon-olt(config)# ip igmp snooping mrouter vlan 300 interface gigabitethernet 0/7
```

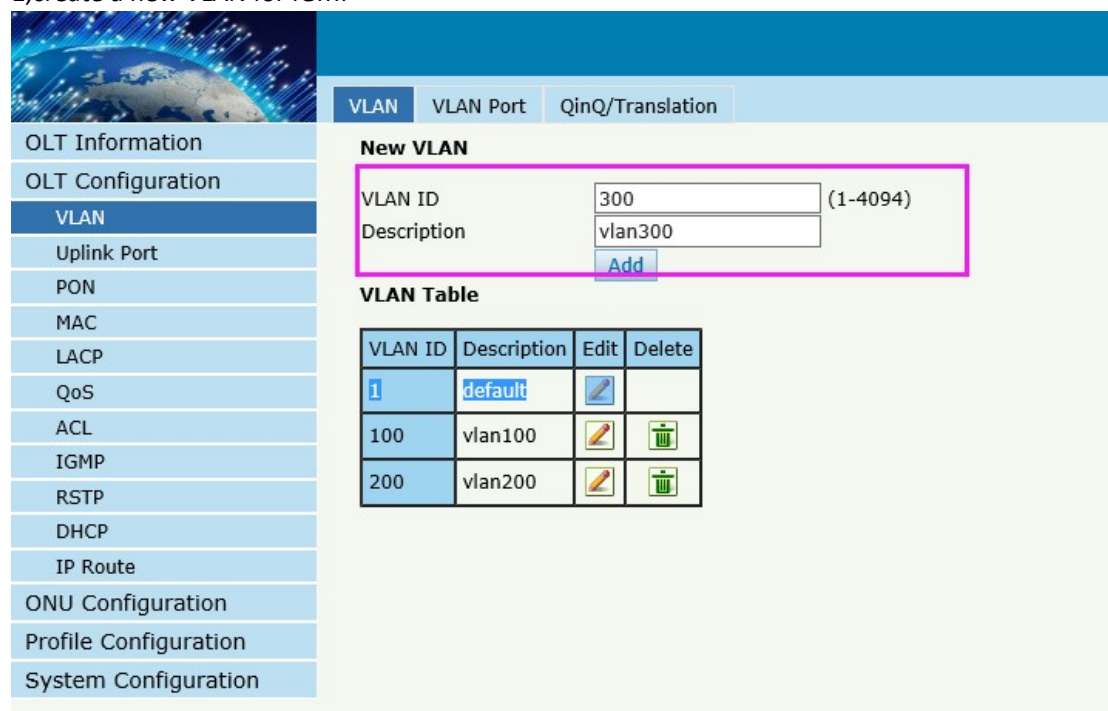
```
gpon-olt(config)# ip igmp snooping mvlan 300 unknown-multicast drop igmp trap-to-cpu
```

```
gpon-olt(config)# interface gpon 0/1
```







```
gpon-olt(config-pon-0/1)# ip igmp snooping user-vlan 300 group-vlan 300 tagged
```

```
gpon-olt(config-pon-0/1)# exit
```

1,create a new VLAN for IGMP



The screenshot displays a network management interface with a sidebar on the left containing various configuration options like OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area shows the 'New VLAN' configuration form, which is highlighted with a pink border. The form includes fields for 'VLAN ID' (set to 300) and 'Description' (set to 'vlan300'), with a range '(1-4094)' indicated for the VLAN ID. An 'Add' button is located below the description field. Below the form is a 'VLAN Table' with the following data:

VLAN ID	Description	Edit	Delete
1	default		
100	vlan100		
200	vlan200		

2, configure VLAN mode

VLAN | **VLAN Port** | QinQ/Translation

Port VLAN Configuration

VLAN ID: 300

Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Submit

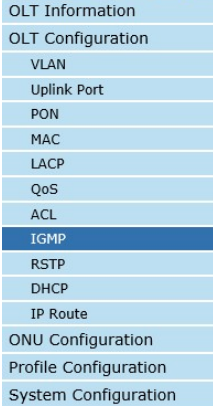
Information | **Configuration**

GE Configuration

Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	300	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0

Submit | Reset

3,enable IGMP snooping function



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

IGMP Configuration

IGMP Status:

Last Member Query Interval: (1-255s)

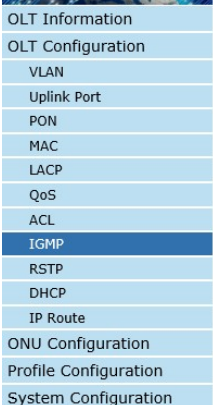
Last Member Query Count: (1-255)

Last Member Query Response: (1-255s)

General Query Packet: Disable Enable

General Query Interval: (10-255s)

Query Source IP:



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

User VLAN Configuration

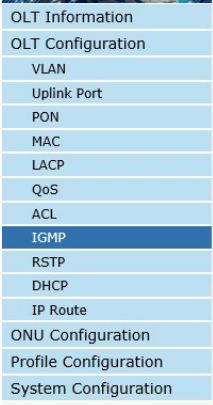
Port ID:

User VLAN ID:

Group VLAN ID:

User VLAN Table

Port ID	User VLAN ID	Group VLAN ID	Delete



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

Add Multicast Router

Port ID:

Group VLAN ID:

Multicast Router Table

Port ID	Group VLAN ID	Delete

The screenshot shows a web-based configuration interface for a network device. On the left is a sidebar with a menu of configuration options: OLT Information, OLT Configuration (VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route), ONU Configuration, Profile Configuration, and System Configuration. The 'IGMP' option is selected. The main content area has a top navigation bar with tabs: Group Member, Global, Port, Port User VLAN, Port Mrouter, Mvlan (selected), and Static Group. Below the tabs, the page is titled 'IP Igmp Mvlan Info'. It features a table with three columns: 'Multicast vlan', 'Unknown multicast', and 'Igmp packet'. The first row shows values '100', 'drop', and 'trap-to-cpu'. Below the table is a form titled 'Add/Modify Mvlan' enclosed in a pink box. This form has three input fields: 'Mvlan ID(1~4094)' with the value '300', 'Unknown multicast' with a dropdown menu set to 'drop', and 'Igmp packet' with a dropdown menu set to 'trap-to-cpu'. An 'Add/Modify' button is located at the bottom of the form.

Configuring the ONU

CLI

```
pon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1
```

```
gpon-olt(config-gpon-0/1)# onu 1 gemport 3 tcont 1
```

```
gpon-olt(config-gpon-0/1)# onu 1 service 1 gemport 3 vlan 300
```

```
gpon-olt(config-gpon-0/1)#onu 1 service-port 1 gemport 3 uservlan 300 vlan 300
```


```
gpon-olt(config-gpon-0/1)#onu 1 portvlan eth 1 mode hybrid def_vlan 300
```

```
gpon-olt(config-gpon-0/1)# onu 1 mvlan 300
```

```
gpon-olt(config-gpon-0/1)# onu 1 mvlan tag-strip eth 1
```

```
gpon-olt(config-gpon-0/1)# exit
```

create DBA profile



DBA Profiles **Add Profile**


Add Profile

Profile ID	1
Profile Type	Type_3
Profile Name	dba_1
Assured(Kbps)	10000
Maximum(Kbps)	100000

Commit

- OLT Information
- OLT Configuration
- ONU Configuration
- Profile Configuration
 - Onu Profile
 - DBA Profile**
 - Traffic Profile
 - Line Profile
 - Service Profile
 - Alarm Profile
 - Bind Profile
- System Configuration

2, Create ONU profile for 1GE ONU



Information **Add Profile**

Onu Profiles Modify

Profile ID	1
Profile Name	V2801ZG
Description	1GE SFU
Max tcont	8
Max gempport	32
Max eth	1
Max pots	0
Max iphost	2
Max ipv6host	0
Max veip	0
Service Ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

Commit

- OLT Information
- OLT Configuration
- ONU Configuration
- Profile Configuration
 - Onu Profile**
 - DBA Profile
 - Traffic Profile
 - Line Profile
 - Service Profile
 - Alarm Profile
 - Bind Profile
- System Configuration

3,Authorize ONU

Automatic Discovery

Port ID: PON1

ONU ID	Sn	State	Action
GPON0/1:1	GPON000010E0	Unknown	Add Detail Info

[Refresh](#)

Add Onu

PON Number	1
ONU Number	1
Auth Mode	Sn
Onu Sn	GPON000010E0
ONU Profile	V2801ZG

[Submit](#) [Back](#)

4,Configure ONU

ONU Authentication Info

Port ID: PON1

ONU ID	ONU Profile	Auth Mode	Auth Info	Action
GPON0/1:1	V2801ZG	Sn	GPON000010E0	Delete Config Modify Optical Info Detail Info Reboot

[Delete All](#) [Refresh](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Tcont Info (PON:1 ONU:1)

Tcont ID	Name	DbA Profile	Action
1	tcont_1	dba_1	Delete

Add ONU Tcont

Tcont ID

DbA Profile Name

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont **Config Gemport** Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Gemport Info (PON:1 ONU:1)

Gemport ID	Name	Tcont	Cos	Upstream	Downstream	State	UpQueueMapId	DownQueueMapId	Action
1	default	1	N/A	default	default	Enable	N/A	N/A	Delete
2	default2	1	N/A	default	default	Enable	N/A	N/A	Delete

Add ONU Gemport

Gemport ID

TcontID

Gemport Name

Cos (0-7)

Upstream Traffic

Downstream Traffic

UpQueueMapId (0-3)

DownQueueMapId (0-7)

State

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport **Service** ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Service Info (PON:1 ONU:1)

Service Name	Gemport	Vlan Mode	Vlan List	Cos List	Port	Action
1	1	Tag	100	N/A	N/A	Delete
2	2	Tag	200	N/A	N/A	Delete

Add ONU Service

Service Name

Gemport ID

Vlan Mode

Vlan List (X,X or X-X;0 for all)

Cos List (X,X or X-X;)

Port Type

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service **ServicePort** PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Service Port Info (PON:1 ONU:1)

Service Port	Vport	BenginVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action
1	1	100	100	N/A	N/A	N/A	N/A	100	0	N/A	N/A	1:1	YES	N/A	Delete
2	1	200	200	N/A	N/A	N/A	N/A	200	0	N/A	N/A	1:1	YES	N/A	Delete

Add ONU Service Port

Service Mode	Cvlan
Service-Port ID	3
Gemport ID	3
User Vlan	300
Translate Vlan	300
Translate Cos	N/A (0-7)
Translate Svlan	N/A
Translate Scos	N/A (0-7)
Description	N/A

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort **PortVlan** Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

Port Name	Mode	Vlan	Vlan Pri(tag)	Default Vlan(hybrid)	Default Pri(hybrid)	CVlan(translate)	CVlanPri(translate)	SVlan(translate)	SVlan Pri(translate)	Action
veip_1	Transparent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete

Add ONU PortVlan

Mode	Transparent
Port Type	Eth
Port Id	

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan **Multicast Vlan** Multicast Vlan Strip Config Description Config Port Config Iphost

Multicast Vlan list

ONU ID	Vlan List	Action
1	N/A	Delete All

Add/Del Multicast Vlan (max 12 vlans)

Mvlan List	300 (100,103 or 105-108)
------------	--------------------------

[Add](#) [Del](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan Multicast Vlan **Multicast Vlan Strip** Config Description Config Port Config Iphost

Multicast Vlan list

ONU ID	Vlan Mode	Port	Action

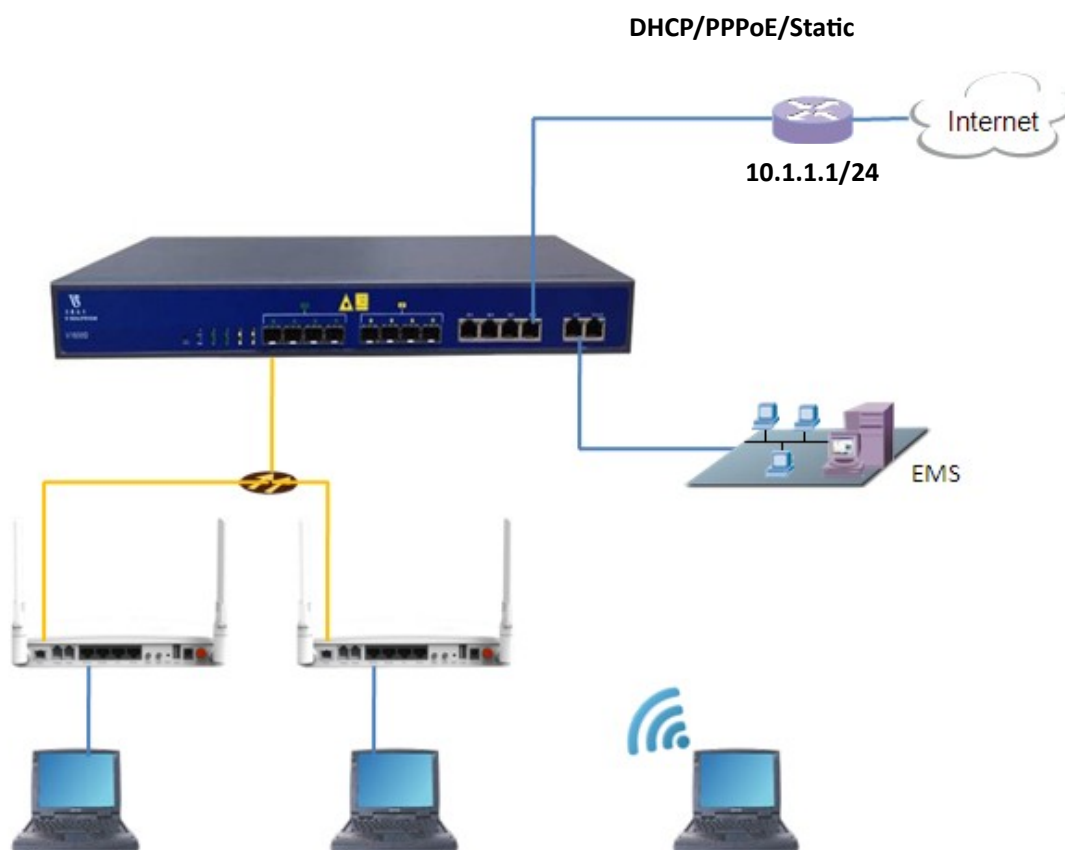
Add/Del Multicast Strip

Strip Eth Number	1
------------------	---

[Confirm](#)

Case 4 HGU Router --Internet

Network Diagram



Planning Data

Item		Description	Example
ONU Information	Slot No.	The number of the slot actually used.	0
	PON No.	The number of the actually used PON port.	1
	ONU Auth No.	Configure according to the network planning of the operator.	1
	ONU Type	The type of the ONU.	HG326RGW
OLT	Service	The VLAN ID of the uplink port service.	VLAN mode = UNTAG

	Uplink VLAN		PVID = 100
	Service Uplink port	Configure according to the number of the actuallyused uplink port.	GE8
	Service PON VLAN	The VLAN ID of the PON port service.	VLAN mode = TAG VLAN ID = 100
	Service PON port	Configure according to the number of the actuallyused PON port.	PON1
ONU	Service LAN VLAN	The VLAN ID of the LAN port service.	Default No VLAN
	Service LAN port	The number of the actually used ONU port.	LAN1
	Service LAN VLAN	The VLAN ID of the LAN port service.	VLAN mode = TAG PVID = 100
	Service LAN port	The number of the actually used ONU port.	LAN1
	Tcont	The onu Tcont	Tcont=1
	Gemport	The onu Gemport	Gemport=1
	Dbas	The ONU dba profile	Dbas name=dbas_1 Dbas type = 3
	Service vlan	The vlan of ONU service.	Service Vlan = 100
	Service-port uservlan	The vlan of onu service-port	Service-port vlan =100
	WiFi	Wireless's SSID name,Security.	SSID1 name = SSID-1 Security method = WAP2 Mixed WPA Encryption = TKIP WPA2 Encryption = AES KEY = 12345678
	Service WAN VLAN	The VLAN ID of the PON(WAN) port service.	VLAN ID = 100
	If WAN use DHCP mode	The router use DHCP assign ip to terminal user.	Gateway = 10.1.1.1 IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 DNS = 8.8.8.8
	If WAN use PPPoE mode	The router use PPPoE assign ip to terminal user.	IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 User name = test Password = test
If WAN use	The router use Static assign ip to	Gateway = 10.1.1.1	

	Static mode	terminal user.	IP = 10.1.1.100 IP Mask = 255.255.255.0 DNS = 8.8.8.8
PC	DHCP mode	The ONU use DHCP assign ip to PC.	Gateway = 192.168.1.1 IP = 192.168.1.2 IP Mask = 255.255.255.0 DNS = 192.168.1.1

Configuring the OLT

By CLI -----

```
gpon-olt(config)# vlan 100
```

```
gpon-olt(config-vlan-100)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/8
```

```
gpon-olt(config-if-ge0/8)# switchport hybrid vlan 100 untagged
```

```
gpon-olt(config-if-ge0/8)# switchport hybrid pvid vlan 100
```

```
gpon-olt(config-if-ge0/8)# exit
```

By web -----

1,Create a new VLAN

VLAN | VLAN Port | QinQ/Translation

New VLAN

VLAN ID: (1-4094)

Description:

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		

2. configure GE port VLAN mode

VLAN | **VLAN Port** | QinQ/Translation

VLAN ID:

Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Port VLAN Table

3, configure GE port PVID

Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0

Configuring the ONU

By CLI -----

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1
```

```
gpon-olt(config-gpon-0/1)# onu 1 gempport 1 tcont 1
```

```
gpon-olt(config-gpon-0/1)# onu 1 service 1 gempport 1 vlan 100
```

```
gpon-olt(config-gpon-0/1)# onu 1 service-port 1 gempport 1 uservlan 100 vlan 100
```

```
gpon-olt(config-gpon-0/1)# onu 1 portvlan veip 1 mode transparent
```

1, Create ONU profile for 4GE HGU

By web -----

Information **Add Profile**

ONU Profile Modify

Profile ID	3
Profile Name	HG326RGW
Description	description
Max tcont	8
Max gemport	32
Max eth	1
Max pots	0
Max Iphost	2
Max Ipv6host	0
Max veip	1
Service ability	Disable
Service ability N:1	yes
Service ability 1:M	yes
Service ability 1:P	yes
Wifi mgmt via non OMCI	Disable
Omci send mode	async
Default multicast range	none

2, Find the ONU of Autofind lists and perform authorization operations on it

Automatic Discovery

Automatic Discovery

Port ID

ONU ID	Sn	State	Action
GPON0/1:1	GPON000010E0	Unknown	Add Detail Info

[Refresh](#)

3, Select the 1GE ONU template

Automatic Discovery

- OLT Information
- OLT Configuration
- ONU Configuration
 - ONU AuthList
 - ONU AutoFind**
 - ONU AutoLearn
 - ONU Upgrade
 - Rogue ONU
- Profile Configuration
- System Configuration

Add Onu

PON Number	1
ONU Number	1
Auth Mode	Sn
Onu Sn	GPON000010E0
ONU Profile	HG326RGW

Submit Back

4, Configure ONU

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gempport Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Tcont Info (PON:1 ONU:1)

Tcont ID	Name	Dbp Profile	Action

Add ONU Tcont

Tcont ID	1
Dbp Profile Name	dba_1

Commit

ONU Status **ONU List** ONU Manual Add

Config Tcont **Config Gempport** Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port

ONU Gempport Info (PON:1 ONU:1)

Gempport ID	Name	Tcont	Cos	Upstream	Downstream	State	UpQueueMapId	DownQueueMapId	Action

Add ONU Gempport

Gempport ID	1
TcontID	1
Gempport Name	default
Cos	N/A (0-7)
Upstream Traffic	default
Downstream Traffic	default
UpQueueMapId	N/A (0-3)
DownQueueMapId	N/A (0-7)
State	Enable

Commit

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport **Service** ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port

ONU Service Info (PON:1 ONU:1)

Service Name	Gemport	Vlan Mode	Vlan List	Cos List	Port	Action
1	1	Tag	100	N/A	N/A	

Add ONU Service

Service Name	1
Gemport ID	1
Vlan Mode	Tag
Vlan List	100
Cos List	N/A
Port Type	N/A

Commit

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service **ServicePort** PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config I

ONU Service Port Info (PON:1 ONU:1)

Service Port	Vport	BenginVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action
1								100				Cvlan			

Add ONU Service Port

Service Mode	Cvlan
Service-Port ID	1
Gemport ID	1
User Vlan	100
Translate Vlan	100
Translate Cos	N/A
Translate SVlan	N/A
Translate SCos	N/A
Description	N/A

Commit

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort **PortVlan** Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

Port Name	Mode	Vlan	Vlan Pri(tag)	Default Vlan(hybrid)	Default Pri(hybrid)	CVlan(translate)	CVlanPri(translate)	SVlan(translate)	SVlan Pri(translate)	Action
1	Transparent									

Add ONU PortVlan

Mode	Transparent
Port Type	Veip
Port Id	1

Commit

By ONU web -----

If DHCP mode

NetWork

Status
NetWork
Security
Application
Management

Internet
Binding
LAN IP Address
WLAN
WLAN
Remote
QoS
Time
Router

Uplink Mode

Internet Connection

WAN Configuration

Connection Name: Add New WAN Conn

Mode: Route

IP Protocol Mode: Ipv4

DHCP Get an address from ISP

Static Get a static IP address from ISP

PPPoE Select this when using PPPOE

Enable NAT :

Enable Vlan :

Vlan ID : 100

802.1p : 0

MTU : 1500

Request DNS: Enable Disable

Primary DNS:

Secondary DNS:

Service Mode: INTERNET

Turn off LAN DHCP :

Port binding:

Port_1 Port_2

Port_3 Port_4

WLAN(SSID1) WLAN(SSID2)

The connection status

Status

Gateway Name: Household Gateway [Logout](#)

Status
NetWork
Security
Application
Management
Diagnose
Help

Device Information
WAN Connection Info
User Information
VOIP Information
Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address
1_INTERNET_R_VID_100	100	IPoE	Enable	UP	10.1.1.3

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_INTERNET_R_VID_100	10.1.1.1	8.8.8.8	

If PPPoE mode

NetWork

Status NetWork Security Application

Internet Binding LAN IP Address WLAN WLAN Remote

WAN Configuration

Uplink Mode

Internet Connection

Connection Name: Add New WAN Conn

Mode: Route

IP Protocol Mode: Ipv4

DHCP Get an address from ISP

Static Get a static IP address from ISP

PPPoE Select this when using PPPOE

 Enable PPPOE Proxy

 PPPoE mix Bridge Route

Enable NAT :

Enable Vlan :

Vlan ID : 100

802.1p : 0

MTU : 1492

UserName: test

PassWrod: ****

Service Name:

PPP Type: Auto Connect

Service Mode: INTERNET

Turn off LAN DHCP :

Port binding:

Port_1 Port_2

Port_3 Port_4

WLAN(SSID1) WLAN(SSID2)

WLAN(SSID3) WLAN(SSID4)

The connection status

Status

Gateway Name: Household Gateway Logout

Status NetWork Security Application Management Diagnose Help

Device Information WAN Connection Info User Information VOIP Information Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address
1_INTERNET_R_VID_100	100	IPoE	Enable	UP	10.1.1.6

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_INTERNET_R_VID_100	10.1.1.1	8.8.8.8	

If Static mode

NetWork

Status
NetWork
Security
Applicati

Internet
Binding
LAN IP Address
WLAN
WLAN
Remote

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

Mode:

IP Protocol Mode:

DHCP Get an address from ISP

Static Get a static IP address from ISP

PPPoE Select this when using PPPOE

Enable NAT :

Enable Vlan :

Vlan ID :

802.1p :

MTU :

IP Address:

Subnet Mask

Default Gateway

Request DNS: Enable Disable

Primary DNS:

Secondary DNS:

Service Mode

Turn off LAN DHCP :

Port binding:

Port_1 Port_2

Port_3 Port_4

WLAN(SSID1) WLAN(SSID2)

WLAN(SSID3) WLAN(SSID4)

The connection status

Status
Gateway Name: Household Gateway
Logout

Status
NetWork
Security
Application
Management
Diagnose
Help

Device Information
WAN Connection Info
User Information
VOIP Information
Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address
1_INTERNET_R_VID_100	100	IPoE	Enable	UP	10.1.1.8

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_INTERNET_R_VID_100	10.1.1.1	8.8.8.8	

WiFi

WLAN Basic

WLAN Advanced

WLAN Security

This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters

Disable WLAN Interface

Block WLAN Access to Web

Band: 2.4 GHz (B+G+N) ▾

Mode: AP ▾

SSID: FTTH|

Disable Broadcast:

Block Relay:

Channel Width: 40MHz ▾

Channel Number: Auto ▾

Client Number: Disable ▾

Associated Clients: Show Active WLAN Clients

Apply Changes

WLAN Basic

WLAN Advanced

WLAN Security

WLAN Security Settings

SSID Type: FTTH ▾

Encryption: WPA2 Mixed ▾

Authentication Mode: Enterprise (RADIUS) Personal (Pre-Shared Key)

WPA Cipher Suite: TKIP AES

WPA2 Cipher Suite: TKIP AES

Group Key Update Timer: 86400

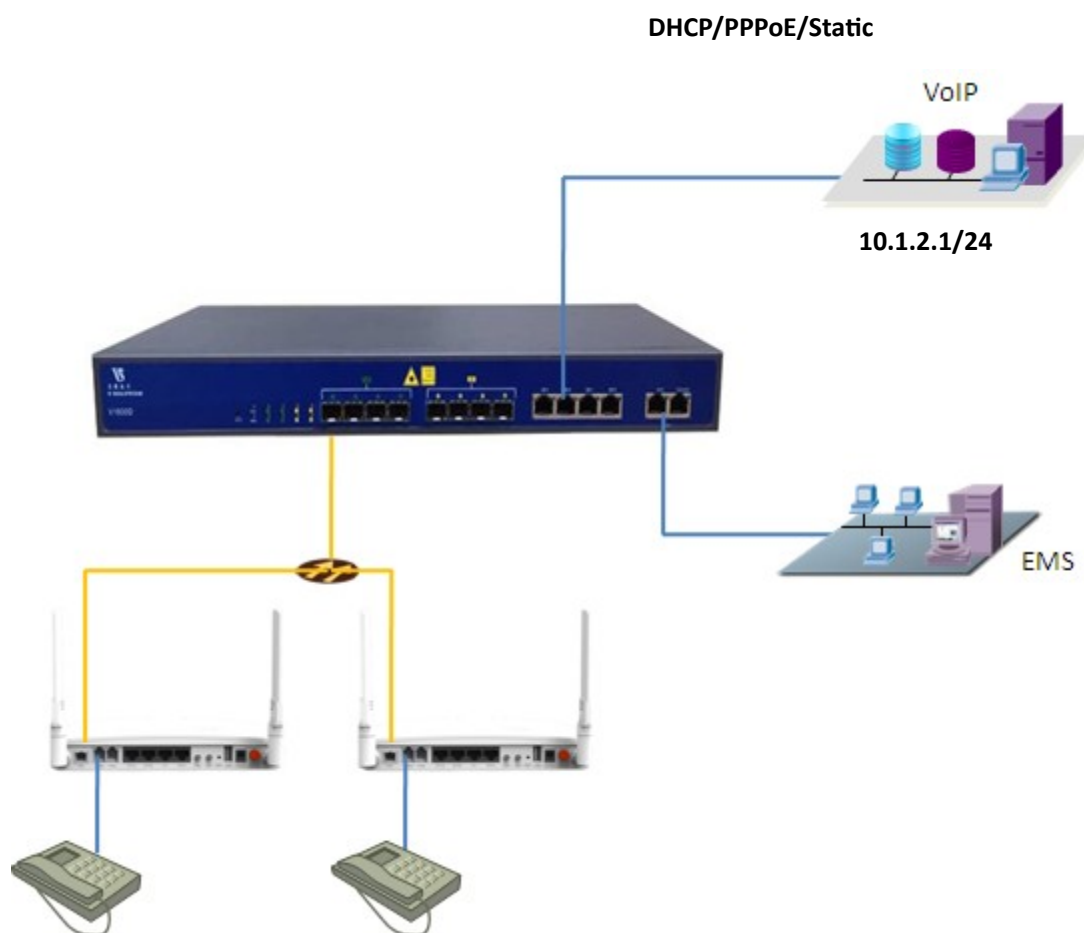
Pre-Shared Key Format: Passphrase ▾

Pre-Shared Key:

Apply Changes

Case 5 HGU Router --VoIP

Network Diagram



Planning Data

Item		Description	Example
ONU Information	Slot No.	The number of the slot actually used.	0
	PON No.	The number of the actually used PON port.	1
	ONU Auth No.	Configure according to the network planning of the operator.	1
	ONU Type	The type of the ONU.	HG326RGW

OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 200
	Service Uplink port	Configure according to the number of the actuallyused uplink port.	GE6
	Service PON VLAN	The VLAN ID of the PON port service.	VLAN mode = TAG VLAN ID = 200
	Service PON port	Configure according to the number of the actuallyused PON port.	PON1
ONU	Service WAN VLAN	The VLAN ID of the PON(WAN) port service.	VLAN ID = 200
	Service POTS port	The number of the actually used ONU port.	POTS1
	Tcont	The onu Tcont	Tcont=1
	Gemport	The onu Gemport	Gemport=1
	Dbas	The ONU dba profile	Dbas name=dba_1 Dbas type = 3
	Service vlan	The vlan of ONU service.	Service Vlan = 200
	Service-port uservlan	The vlan of onu service-port	Service-port vlan =200
	If WAN use DHCP mode	The router use DHCP assign ip to ONU.	Gateway = 10.1.2.1 IP Range 10.1.2.2-10.1.2.254 IP Mask = 255.255.255.0 DNS = 8.8.8.8
	If WAN use PPPoE mode	The router use PPPoE assign ip to ONU.	IP Range 10.1.2.2-10.1.2.254 IP Mask = 255.255.255.0 User name = test1 Password = test1
If WAN use Static mode	The router use Static assign ip to ONU.	Gateway = 10.1.2.1 IP = 10.1.2.100 IP Mask = 255.255.255.0 DNS = 8.8.8.8	

Configuring the OLT

By CLI -----

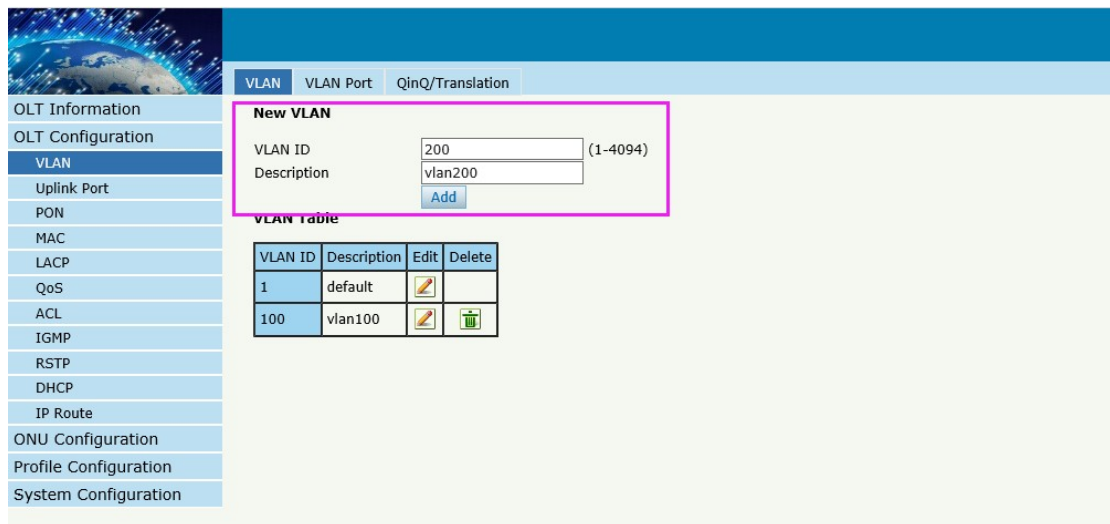
```

gpon-olt(config)# vlan 200
gpon-olt(config-vlan-200)# exit
gpon-olt(config)# interface gigabitethernet 0/6
gpon-olt(config-if-ge0/6)# switchport hybrid vlan 200 untagged
gpon-olt(config-if-ge0/6)# switchport hybrid pvid vlan 200
gpon-olt(config-if-ge0/6)# exit

```

By Web -----

1, create a new VLAN



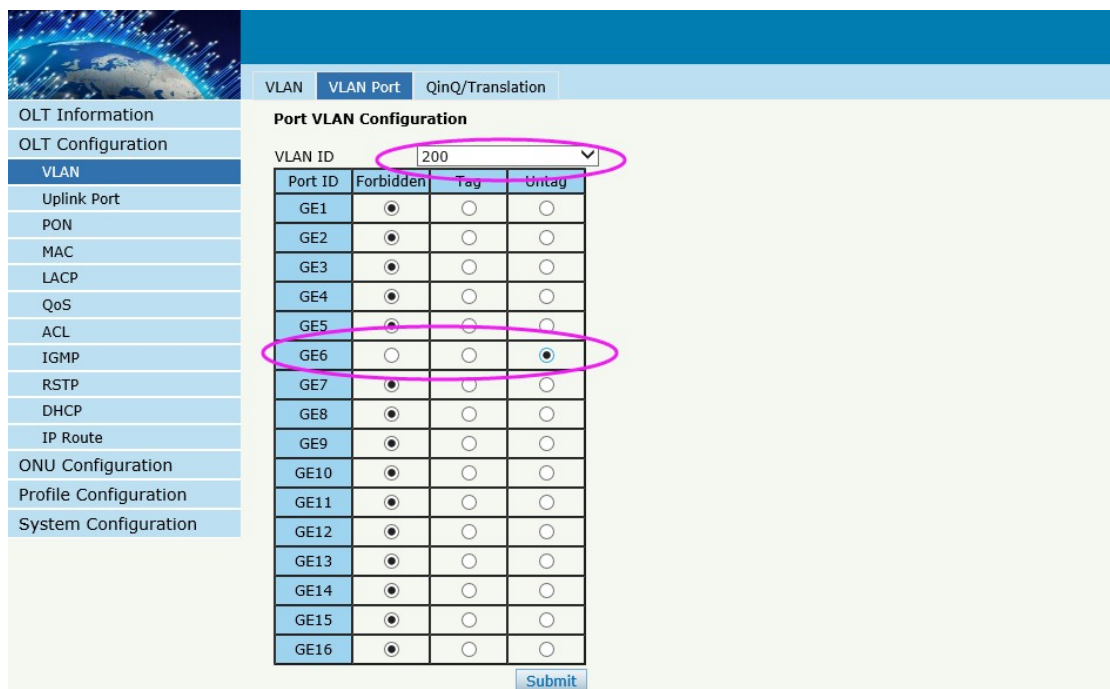
New VLAN

VLAN ID: 200 (1-4094)
 Description: vlan200
 Add

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
100	vlan100		

2.configure GE VLAN mode



Port VLAN Configuration

VLAN ID: 200

Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE6	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Submit

Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0

Configuring the ONU

By CLI -----

```
gpon-olt(config-pon-0/1)# onu 1 tcont 1 dba dba_1
```

```
gpon-olt(config-pon-0/1)# onu 1 gempport 2 tcont 1
```

```
gpon-olt(config-pon-0/1)# onu 1 service 1 gempport 2 vlan 200
```

```
gpon-olt(config-pon-0/1)# onu 1 service-port 1 gempport 2 uservlan 200 to 200 transparent
```

By web -----


Configure ONU

Tcont ID	Name	Dba Profile	Action
1	tcont_1	dba_1	Delete

Add ONU Tcont

Tcont ID:

Dba Profile Name:



ONU Status **ONU List** ONU Manual Add

OLT Information Config Tcont **Config Gempport** Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description

OLT Configuration

ONU Configuration


ONU Gempport Info (PON:1 ONU:1)

Gempport ID	Name	Tcont	Cos	Upstream	Downstream	State	UpQueueMapId	DownQueueMapId	Action
1	default	1	N/A	default	default	Enable	N/A	N/A	Delete

Add ONU Gempport

Gempport ID	2
TcontID	1
Gempport Name	default2
Cos	N/A (0-7)
Upstream Traffic	default
Downstream Traffic	default
UpQueueMapId	N/A (0-3)
DownQueueMapId	N/A (0-7)
State	Enable

[Commit](#)



ONU Status **ONU List** ONU Manual Add

OLT Information Config Tcont Config Gempport **Service** ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Cor

OLT Configuration

ONU Configuration

ONU Service Info (PON:1 ONU:1)

Service Name	Gempport	Vlan Mode	Vlan List	Cos List	Port	Action
1	1	Tag	100	N/A	N/A	Delete

Add ONU Service

Service Name	2
Gempport ID	2
Vlan Mode	Tag
Vlan List	200 (X,X or X-X;0 for all)
Cos List	N/A (X,X or X-X;)
Port Type	N/A

[Commit](#)

ONU Status | ONU List | ONU Manual Add

OLT Information | OLT Configuration | ONU Configuration | ONU AuthList | ONU AutoFind | ONU AutoLearn | ONU Upgrade | Rogue ONU | Profile Configuration | System Configuration

Config Tcont | Config Gemport | Service | ServicePort | PortVlan | Multicast Vlan | Multicast Vlan Strip | Config Description | Config Port | Con

ONU Service Port Info (PON:1 ONU:1)

Service Port	Vport	BenginVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action
1	1	100	100	N/A	N/A	N/A	N/A	100	0	N/A	N/A	1:1	YES	N/A	Delete

Add ONU Service Port

Service Mode: Cvlan

Service-Port ID: 2

Gemport ID: 1

User Vlan: 200

Translate Vlan: 200

Translate Cos: N/A (0-7)

Translate Svlan: N/A

Translate Scos: N/A (0-7)

Description: N/A

Commit

By ONU web -----

If DHCP mode

NetWork

Status | NetWork | Security | Application

Internet | Binding | LAN IP Address | WLAN | WLAN | Remote | QoS

Uplink Mode

Internet Connection

WAN Configuration

Connection Name: 1_TR069_R_VID_46

Mode: Route

IP Protocol Mode: Ipv4

DHCP
Get an address from ISP

Static
Get a static IP address from ISP

PPPoE
Select this when using PPPOE

Enable Vlan :

Vlan ID : 200

802.1p : 6

MTU : 1500

Request DNS: Enable
 Disable

Primary DNS:

Secondary DNS:

Service Mode: VOICE

Turn off LAN DHCP :

The connection status

Gateway Name: Household Gateway [Logout](#)

Status

Status Network Security Application Management Diagnose Help

Device Information WAN Connection Info User Information VOIP Information Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address
1_VOICE_R_VID_200	200	IPoE	Disable	UP	10.1.2.2

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_VOICE_R_VID_200	10.1.2.1	8.8.8.8	

Gateway Name: Household Gateway [Logout](#)

Status

Status Network Security Application Management Diagnose Help

Device Information WAN Connection Info User Information VOIP Information Remote Management Status

VOIP Information

VOIP Information

Service Register State	Register Success	Register Success
Phone Number	6001	6002

If PPPoE mode

Gateway Name

NetWork

Status Network Security Application Management

Internet Binding LAN IP Address WLAN WLAN Remote QoS Time

Uplink Mode

Internet Connection

WAN Configuration

Connection Name: 1_VOICE_R_VID_20

Mode: Route

IP Protocol Mode: Ipv4

DHCP Get an address from ISP

Static Get a static IP address from ISP

PPPoE Select this when using PPPOE

PPPoE mix Bridge Route

Enable Vlan :

Vlan ID : 200

802.1p : 6

MTU : 1492

UserName: test1

PassWrod:

Service Name:

PPP Type: Auto Connect

Service Mode: VOICE

Turn off LAN DHCP :

Save/Apply Del

The connection status

Gateway Name: Household Gateway [Logout](#)

Status

Status Network Security Application Management Diagnose Help

Device Information WAN Connection Info User Information VOIP Information Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

Interface	VLAN ID	Protocol	IGMP	Status	IP Address
1_VOICE_R_VID_200	200	IPoE	Disable	UP	10.1.2.3

NetWork Info

Service Interface	Default Gateway	Primary DNS	Secondary DNS
1_VOICE_R_VID_200	10.1.2.1	8.8.8.8	

Gateway Name: Household Gateway [Logout](#)

Status

Status Network Security Application Management Diagnose Help

Device Information WAN Connection Info User Information VOIP Information Remote Management Status

VOIP Information

VOIP Information

Service	Register State	Register Success
Phone Number	6001	6002

If Static mode

Gateway

NetWork

Status Network Security Application Management

Internet Binding LAN IP Address WLAN WLAN Remote QoS Time R

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

Mode:

IP Protocol Mode:

DHCP Get an address from ISP

Static Get a static IP address from ISP

PPPoE Select this when using PPPOE

Enable Vlan :

Vlan ID :

802.1p :

MTU :

IP Address:

Subnet Mask:

Default Gateway:

Request DNS: Enable Disable

Primary DNS:

Secondary DNS:

Service Mode:

Turn off LAN DHCP :

The connection status

Status	Gateway				
	Status	NetWork	Security	Application	Managemen
	Device Information	WAN Connection Info	User Information	VOIP Information	Re

IPv4 Connection Information	WAN Info					
	Interface	VLAN ID	Protocol	IGMP	Status	IP Address
	1_VOICE_R_VID_200	200	IPoE	Disable	up	10.1.2.100

IPv6 Connection Information	NetWork Info		
	Service Interface	Default Gateway	Primary DNS
	1_VOICE_R_VID_200	10.1.2.1	8.8.8.8

GPON Information			
------------------	--	--	--

Status	Gateway Name: Household Gateway Logout						
	Status	NetWork	Security	Application	Management	Diagnose	Help
	Device Information	WAN Connection Info	User Information	VOIP Information	Remote Management Status		

VOIP Information	VOIP Information	
	Service Register State	Register Success
	Phone Number	6001

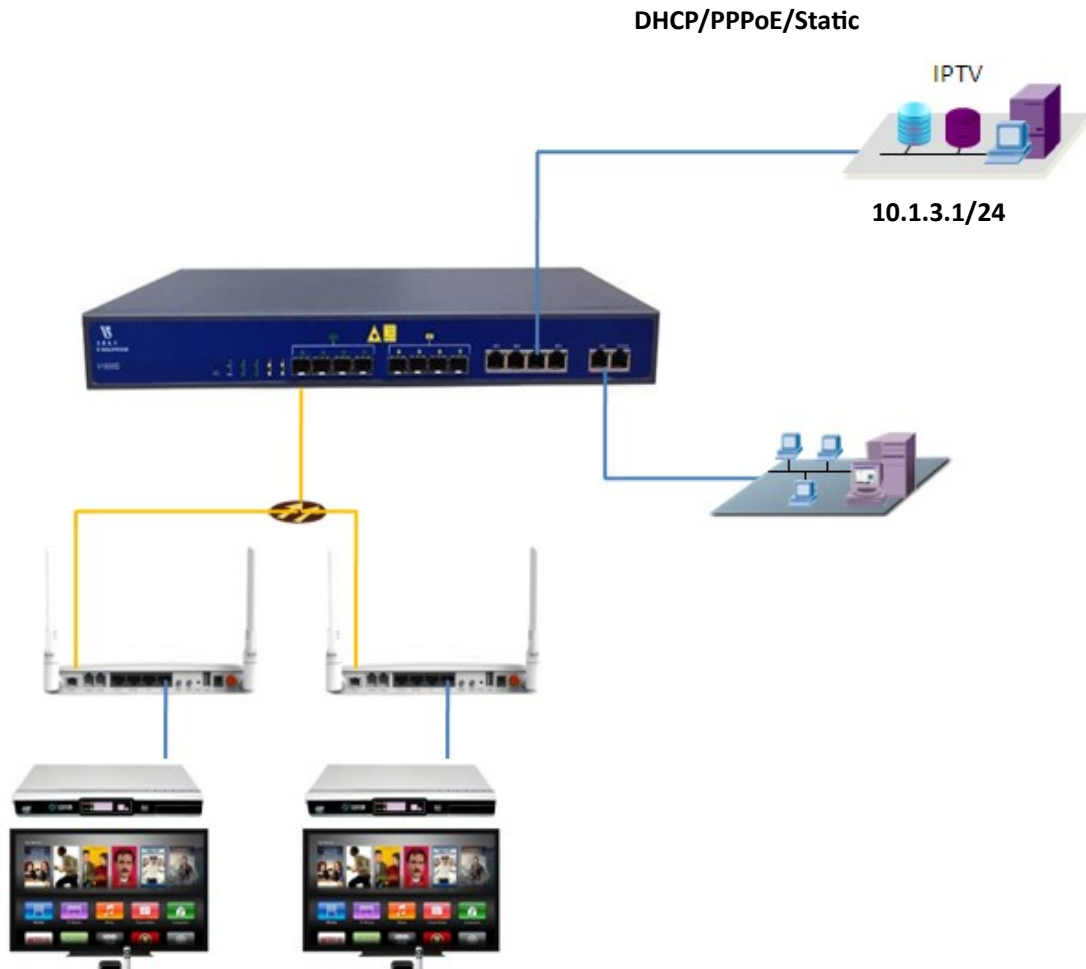
VoIP

		Gateway Name: Household Gateway						Logout
Application	Status	NetWork	Security	Application	Management	Diagnose	Help	
	VPN	DDNS	Advanced NAT	UPNP	VOIP	IGMP	MLD	Daily Application

VOIP Configuration Advanced VOIP Configuration	Server Type: <input type="text" value="Soft Switch SIP"/>
Primary SIP Proxy	
Address:	<input type="text" value="192.168.4.150"/>
PORT:	<input type="text" value="5060"/>
Enable Outbound Proxy:	<input type="checkbox"/>
Outbound Proxy Addr:	<input type="text"/>
Outbound Proxy Port:	<input type="text" value="5060"/>
SIP Domain:	<input type="text"/>
Reg Expire (sec):	<input type="text" value="3600"/>
Enable Session timer:	<input checked="" type="checkbox"/>
Session Expire (sec):	<input type="text" value="1800"/>
Secondary SIP Proxy	
Enable Secondary SIP:	<input type="checkbox"/>
Address:	<input type="text"/>
PORT:	<input type="text" value="5060"/>
Enable Outbound Proxy:	<input type="checkbox"/>
Outbound Proxy Addr:	<input type="text"/>
Outbound Proxy Port:	<input type="text" value="5060"/>
SIP Domain:	<input type="text"/>
Reg Expire (sec):	<input type="text" value="3600"/>
Enable Session timer:	<input checked="" type="checkbox"/>
Session Expire (sec):	<input type="text" value="1800"/>
Line1	
Enabled:	<input checked="" type="checkbox"/>
Account number:	<input type="text" value="6001"/>
Account name:	<input type="text"/>
Account password:	<input type="text"/>
Line2	
Enabled:	<input checked="" type="checkbox"/>
Account number:	<input type="text" value="6002"/>
Account name:	<input type="text"/>
Account password:	<input type="text"/>

Case 6 HGU Bridge --IPTV

Network Diagram



Planning Data

Item		Description	Example
ONU Information	Slot No.	The number of the slot actually used.	0
	PON No.	The number of the actually used	1

		PON port.	
	ONU Auth No.	Configure according to the network planning of the operator.	1
	ONU Type	The type of the ONU.	HG326RGW
OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 300
	Service Uplink port	Configure according to the number of the actually used uplink port.	GE7
	Service PON VLAN	The VLAN ID of the PON port service.	VLAN mode = TAG VLAN ID = 300
	Service PON port	Configure according to the number of the actually used PON port.	PON1
ONU	Service WAN VLAN	The VLAN ID of the PON(WAN) port service.	VLAN mode = Transparent
	Service LAN VLAN	The VLAN ID of the LAN port service.	VLAN mode = UNTAG LAN VLAN ID = 300 Multicast VLAN ID = 300
	Service LAN port	The number of the actually used ONU port.	LAN4
	Tcont	The onu Tcont	Tcont=1
	Gemport	The onu Gemport	Gemport=1
	Dbas	The ONU dba profile	Dba name=dba_1 Dba type = 3
	Service vlan	The vlan of ONU service.	Service Vlan = 100
	Service-port uservlan	The vlan of onu service-port	Service-port vlan =100
STB	Management IP	The IP for STB.	Gateway = 10.1.3.1 IP = 10.1.3.100 IP Mask = 255.255.255.0

Configuring the OLT

By CLI -----

```
gpon-olt(config)# vlan 300
```

```
gpon-olt(config-vlan-100)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/7
```

```

gpon-olt(config-if-ge0/7)# switchport hybrid vlan 300 untagged

gpon-olt(config-if-ge0/7)# switchport hybrid pvid vlan 300

gpon-olt(config-if-ge0/7)# exit

gpon-olt(config)# ip igmp snooping enable

gpon-olt(config)# ip igmp snooping general-query-packet enable

gpon-olt(config)# ip igmp snooping mrouter vlan 300 interface gigabitethernet 0/7

gpon-olt(config)# ip igmp snooping mvlan 300 unknown-multicast drop igmp trap-to-cpu

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# ip igmp snooping user-vlan 300 group-vlan 300 tagged

gpon-olt(config-pon-0/1)# exit

```

By web -----

1\create a new VLAN for IGMP

The screenshot shows a web-based configuration interface for a network device. On the left is a navigation menu with options like 'OLT Information', 'OLT Configuration', 'VLAN', 'Uplink Port', 'PON', 'MAC', 'LACP', 'QoS', 'ACL', 'IGMP', 'RSTP', 'DHCP', 'IP Route', 'ONU Configuration', 'Profile Configuration', and 'System Configuration'. The 'VLAN' option is selected. The main area shows the 'New VLAN' configuration form, which is highlighted with a pink border. The form has two input fields: 'VLAN ID' with the value '300' and a range '(1-4094)', and 'Description' with the value 'vlan300'. Below the form is a table titled 'VLAN Table' with the following data:

VLAN ID	Description	Edit	Delete
1	default		
100	vlan100		
200	vlan200		

2, configure VLAN mode

VLAN | **VLAN Port** | QinQ/Translation

Port VLAN Configuration

VLAN ID: 300

Port ID	Forbidden	Tag	Untag
GE1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE2	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE7	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
GE8	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE9	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE10	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE11	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE12	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE13	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE14	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE15	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
GE16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Submit

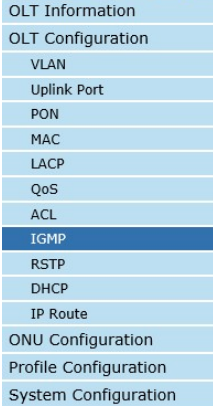
Information | **Configuration**

GE Configuration

Port ID	Description	Admin Status	Flow Control	Isolate	PVID	Storm(0 64-1000000fps)			Rate(0 32-1000000kbps)		MAC Limit(0-16384)
						Broadcast	Multicast	Unicast	Ingress	Egress	
GE1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	512	0	512	0	0	0
GE7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	300	512	0	512	0	0	0
GE8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE9		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE10		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE11		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE12		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE14		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE15		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0
GE16		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	512	0	512	0	0	0

Submit | Reset

3,enable IGMP snooping function



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

IGMP Configuration

IGMP Status:

Last Member Query Interval: (1-255s)

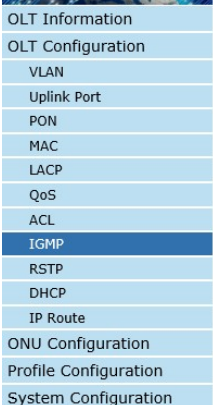
Last Member Query Count: (1-255)

Last Member Query Response: (1-255s)

General Query Packet: Disable Enable

General Query Interval: (10-255s)

Query Source IP:



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

User VLAN Configuration

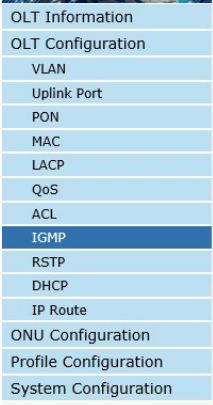
Port ID:

User VLAN ID:

Group VLAN ID:

User VLAN Table

Port ID	User VLAN ID	Group VLAN ID	Delete



Group Member Global Port Port User VLAN Port Router Mvlan Static Group

Add Multicast Router

Port ID:

Group VLAN ID:

Multicast Router Table

Port ID	Group VLAN ID	Delete

The screenshot shows a web-based configuration interface for a network device. On the left is a sidebar menu with options: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP (highlighted), RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The top navigation bar includes: Group Member, Global, Port, Port User VLAN, Port Mrouter, Mvlan (selected), and Static Group. The main content area is titled 'IP Igmp Mvlan Info' and contains a table:

Multicast vlan	Unknown multicast	Igmp packet
100	drop	trap-to-cpu

Below the table is a form titled 'Add/Modify Mvlan' with the following fields:

- Mvlan ID(1~4094): 300
- Unknown multicast: drop
- Igmp packet: trap-to-cpu

An 'Add/Modify' button is located at the bottom of the form.

Configuring the ONU

By CLI -----

```
pon-olt(config)# interface gpon 0/1
gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1
gpon-olt(config-gpon-0/1)# onu 1 gemport 3 tcont 1
gpon-olt(config-gpon-0/1)# onu 1 service 1 gemport 3 vlan 300
gpon-olt(config-gpon-0/1)# onu 1 service-port 1 gemport 3 uservlan 300 to 300 transparent
gpon-olt(config-gpon-0/1)# onu 1 mvlan 300
gpon-olt(config-gpon-0/1)# onu 1 mvlan tag-strip eth 1
gpon-olt(config-gpon-0/1)# exit
```

By web -----

Configure ONU

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Tcont Info (PON:1 ONU:1)

Tcont ID	Name	Dbp Profile	Action
1	tcont_1	dba_1	Delete

Add ONU Tcont

Tcont ID

Dbp Profile Name

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont **Config Gemport** Service ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Gemport Info (PON:1 ONU:1)

Gemport ID	Name	Tcont	Cos	Upstream	Downstream	State	UpQueueMapId	DownQueueMapId	Action
1	default	1	N/A	default	default	Enable	N/A	N/A	Delete
2	default2	1	N/A	default	default	Enable	N/A	N/A	Delete

Add ONU Gemport

Gemport ID

TcontID

Gemport Name

Cos (0-7)

Upstream Traffic

Downstream Traffic

UpQueueMapId (0-3)

DownQueueMapId (0-7)

State

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport **Service** ServicePort PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Service Info (PON:1 ONU:1)

Service Name	Gemport	Vlan Mode	Vlan List	Cos List	Port	Action
1	1	Tag	100	N/A	N/A	Delete
2	2	Tag	200	N/A	N/A	Delete

Add ONU Service

Service Name

Gemport ID

Vlan Mode

Vlan List (X,X or X-X;0 for all)

Cos List (X,X or X-X;)

Port Type

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service **ServicePort** PortVlan Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU Service Port Info (PON:1 ONU:1)

Service Port	Vport	BenginVid	EndVid	OuterVid	InnerVid	UserPrio	Etype	Vlan	Cos	SVlan	SCos	Mode	Enable	Description	Action
1	1	100	100	N/A	N/A	N/A	N/A	100	0	N/A	N/A	1:1	YES	N/A	Delete
2	1	200	200	N/A	N/A	N/A	N/A	200	0	N/A	N/A	1:1	YES	N/A	Delete

Add ONU Service Port

Service Mode	Cvlan
Service-Port ID	3
Gemport ID	3
User Vlan	300
Translate Vlan	300
Translate Cos	N/A (0-7)
Translate Svlan	N/A
Translate Scos	N/A (0-7)
Description	N/A

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort **PortVlan** Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

Port Name	Mode	Vlan	Vlan Pri(tag)	Default Vlan(hybrid)	Default Pri(hybrid)	CVlan(translate)	CVlanPri(translate)	SVlan(translate)	SVlan Pri(translate)	Action
veip_1	Transparent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete

Add ONU PortVlan

Mode	Transparent
Port Type	Eth
Port Id	

[Commit](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan **Multicast Vlan** Multicast Vlan Strip Config Description Config Port Config Iphost

Multicast Vlan list

ONU ID	Vlan List	Action
1	N/A	Delete All

Add/Del Multicast Vlan (max 12 vlans)

Mvlan List	300 (100,103 or 105-108)
------------	--------------------------

[Add](#) [Del](#)

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gemport Service ServicePort PortVlan Multicast Vlan **Multicast Vlan Strip** Config Description Config Port Config Iphost

Multicast Vlan list

ONU ID	Vlan Mode	Port	Action

Add/Del Multicast Strip

Strip Eth Number	1
------------------	---

[Confirm](#)

By ONU web -----

Gateway Name: Household Gateway

NetWork	Status	NetWork	Security	Application	Management	Diagnose		
	Internet	Binding	LAN IP Address	WLAN	WLAN	Remote	QoS	Time

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

Mode:

IP Protocol Mode:

Enable Vlan :

Vlan ID :

802.1p :

MTU :

Service Mode

Turn off LAN

DHCP :

Port binding:

Port_1 Port_2

Port_3 Port_4

WLAN(SSID1)

Note: The bound port can not be shared by different WAN connections, and the last binding operation will overwrite the previous one!

PC connected to this port will not be able to get dynamic (DHCP) IP address from gateway. So it is not recommended to bind all ethernet ports using above-mentioned method!
